



**METROPOLITAN
TRANSPORTATION
COMMISSION**

Joseph P. Bort MetroCenter
101 Eighth Street
Oakland, CA 94607-4700
Tel: 510.464.7700
TDD/TTY: 510.464.7769
Fax: 510.464.7848

ARTERIAL OPERATIONS COMMITTEE

MEETING NOTICE

10:00 am – 11:30 am, Tuesday, Sept. 12, 2006
Joseph P. Bort MetroCenter
Conference Room 171
101 Eighth Street
Oakland CA 94607-4700

Chair: Simin Timuri, Walnut Creek
Vice-Chair: Brian Sowers, Kimley-Horn
Staff Liaison: Christina Atienza
510.817.5828
catienza@mtc.ca.gov

The Arterial Operations Committee oversees the Bay Area's efforts to improve arterial efficiency and safety. Committee membership is open to Bay Area traffic engineers and consultants. For more information, visit www.mtc.ca.gov/services/arterial_operations/.

AGENDA

1. Introductions and Review of [July 11 Meeting Notes](#)* (Timuri) 10:00 a.m.
2. [Traffic Engineering Technical Assistance Program](#)* (Atienza) 10:05 a.m.
Consultants for 2006 & 2007 Cycles; Recommended 2006 Cycle Projects
3. [Technology Transfer Program](#)* (Atienza) 10:15 a.m.
Revised Schedule and Final Outline for Seminar on Advanced Signal Timing
4. [Regional Signal Timing Program](#)* (Atienza) 10:25 a.m.
Review of 2007 Cycle Call for Projects
5. [Other Business](#)* (Georgevich, Atienza) 10:45 a.m.
*Update on Infrastructure Bond, Update on CalPED's Proposed Modifications to CHP 555,
Update on Highway Safety Strategic Plan, Freeway Traffic Data Sources: PeMS and
traffic.com*
6. Focused Discussion: [Budgeting for Operations](#)* 11:00 a.m.
Discussion Leaders – Lily Lim-Tsao (San Jose DOT) & Steve Fitzsimons
(Republic Electric)

Next Meeting: Nov. 9, 2006 at MetroCenter Conference Room 171

*Attachment

ARTERIAL OPERATIONS COMMITTEE*Notes from July 11, 2006 Meeting*

1. Introductions and Review of May 2 Meeting Notes. The meeting was called to order by Simin Timuri, Chair, who asked everyone to introduce themselves. The meeting notes were approved.
2. Traffic Engineering Technical Assistance Program (TETAP). Staff presented the recommended consultants for the 2006 and 2007 Cycles and preliminary statistics on the results of the 2006 Cycle Call for Projects.
3. Technology Transfer Program. Staff presented the revised outline and schedule for the upcoming seminar on Advanced Signal Timing. The Committee suggested changing the schedule from 1:30-4:30 p.m. to 10 a.m.-2 p.m., and made a few suggestions for revisions to the outline. Javad Mirabdal, SF MTA, also volunteered to speak on their bus queue jumping experience with the 3rd Street light rail project.
4. CalPED's Proposed Modifications to the Standard Traffic Collision Report Form (CHP 555). Staff presented proposed form modifications that have been developed over the past several months by a CalPED task force in an effort to enable more informative data on collisions involving pedestrians and bicyclists. The Committee made several suggestions for additional modifications, especially for the section pertaining to traffic control devices.
5. Other Business. Staff presented information on the de-obligation of Federal funds for inactive projects, the Transportation Infrastructure Bond, the expanded traffic.com coverage for Bay Area freeways, the status of the Strategic Highway Safety Plan, and several MTC job openings.
6. Focused Discussion on The Changing Role of Arterials. Paul Chiu, Caltrans, and Javad Mirabdal, San Francisco MTA, led a focused on discussion on the topic. Several Committee members participated in the discussion.

ARTERIAL OPERATIONS COMMITTEE

July 11, 2006 Meeting Attendees

	Name	Agency
1.	Christina Atienza	MTC
2.	Rene Baile	Menlo Park
3.	Elbert Chang	Kimley-Horn
4.	Paul Chiu	Caltrans
5.	Ed Franzen	Antioch
6.	Shanti Ganji	VTA
7.	Shruti Hari	MTC
8.	Dean Hsiao	San Leandro
9.	David Huynh	Fremont
10.	Roger Marshall	Hayward
11.	Javad Mirabdal	San Francisco
12.	Raymond Pascual	VTA
13.	Jaime Rodriguez	Milpitas
14.	Mike Tassano	Pleasanton
15.	Charles (Chip) Taylor	Menlo Park
16.	Simin Timuri	Walnut Creek



METROPOLITAN
TRANSPORTATION
COMMISSION

Joseph P. Bort MetroCenter
101 Eighth Street
Oakland, CA 94607-4700
Tel: 510.464.7700
TDD/TTY: 510.464.7769
Fax: 510.464.7848

Memorandum

TO: Arterial Operations Committee

DATE: Sept. 6, 2006

FR: Christina Atienza

W. I.: 1234

RE: **Traffic Engineering Technical Assistance Program**

TETAP provides traffic engineering technical assistance and expertise to support projects that enhance arterial operations and safety, and promote cooperation and collaboration across jurisdictional boundaries and among multiple modes. Assistance is provided by consultants retained by MTC for projects that are nominated by local agencies. A Call for Projects is issued once per year. Consultants are retained roughly every two years. The total budget for the Program is approximately \$240,000 per year, with grants ranging from \$10,000 to \$30,000 worth of consultant assistance.

Consultants for 2006 and 2007 Cycles

On July 14, MTC's Operations Committee authorized staff to enter into contracts with DKS, Fehr & Peers, and Kimley-Horn to provide consultant assistance to local agencies for the 2006 and 2007 Cycles of TETAP. The selection of the consultants was based on a competitive process.

2006 Cycle Projects

The attached memo explains the selection process for the 14 projects that are recommended for funding under the 2006 Cycle of TETAP, and provides a list of those projects. The memo will be presented to MTC's Operations Committee for their approval at their September 8 meeting. All projects are expected to be kicked-off by late October 2006 and completed by April 2007.



METROPOLITAN
TRANSPORTATION
COMMISSION

Joseph P. Bort MetroCenter
101 Eighth Street
Oakland, CA 94607-4700
TEL 510.817.5700
TDD/TTY 510.817.5769
FAX 510.817.5848
E-MAIL info@mtc.ca.gov
WEB www.mtc.ca.gov

Memorandum

TO: Operations Committee

DATE: September 1, 2006

FR: Executive Director

W. I. 1234

RE: Traffic Engineering Technical Assistance Program (TETAP) – 2006 Cycle Projects

Background

TETAP supports a broad range of studies that improve safety and mobility along arterials in the Bay Area, and promote cooperation and collaboration across agency and modal boundaries. Under the program, MTC retains traffic engineering consultants to provide technical assistance for projects that are nominated by local agencies. The annual budget for the program is \$240,000 in federal funds, with a maximum grant amount of \$30,000 per project. Typical projects include traffic operations and/or safety evaluations, feasibility studies, concepts of operations, technology comparisons, and development of technical information for grant applications. Since its inception in 1993, TETAP has awarded 191 projects to 79 different agencies.

2006 Cycle Project Selection

MTC released the Call for Projects for the 2006 Cycle of TETAP on April 27, and received 24 applications from 21 agencies by the July 7 deadline. The total requested funding amount for all project applications was \$475,500 or nearly twice as much as the available budget. Project applications were evaluated by MTC staff based on the following criteria, which were approved by the Planning and Operations Committee in 2003: immediacy of benefits expected from the project; degree to which consultant expertise and/or assistance is needed; extent of the area benefited by the project; number of jurisdictions involved; number of travel modes directly affected by the project; and the 2000 Census population of the sponsor agency, as a proxy for availability of local agency staff to conduct the project themselves. The attachment shows the 14 projects that the panel unanimously selected for funding under the 2006 Cycle of TETAP.

Recommendation

Staff recommends that this Committee authorize funding for the attached list of 14 projects for the 2006 Cycle of the Traffic Engineering Technical Assistance Program.

Signature on Original

Steve Heminger

SH: CA

J:\COMMITTEE\Operations\2006\Sept 2006\TETAP 2006 Cycle-Atienza.doc

Projects Recommended for 2006 Cycle Traffic Engineering Technical Assistance Program

County	Project Sponsor	Project Title	Funding
1.ALA	Fremont	City-Wide School Traffic Safety Program	\$20,000
2.ALA	Oakland	Harrison/Oakland Traffic Calming	\$20,000
3.CC	Contra Costa County	Pacheco Transit Hub Operations	\$12,000
4.MA	Marin County	Alameda Del Prado Median Reconfiguration	\$12,000
5.MA	Novato	Alameda Del Prado/Nave Dr Traffic Operations	\$10,000
6.SF	San Francisco	Signal Improvements to Enhance Pedestrian Safety	\$25,000
7.SM	Belmont	Ralston/El Camino Real Traffic Operations	\$10,000
8.SM	Burlingame	Signal Warrants for California/Bellevue & Bellevue/Lorton	\$15,000
9.SM	Daly City	Signal System Communications Master Plan	\$20,000
10.SM	Menlo Park	Middlefield Traffic Operations and Safety	\$20,000
11.SM	Redwood City	Jefferson and El Camino Real Cross-Coordination Feasibility	\$3,000
12.SM	South San Francisco	City-Wide Traffic Calming Program	\$25,000
13.SC	Santa Clara County	LRT Priority Timing Implementation at 2 Locations	\$15,000
14.SON	Santa Rosa	Fountaingrove Parkway Traffic Operations and Safety	\$15,000
		Contingency	\$18,000
Total			\$240,000



METROPOLITAN
TRANSPORTATION
COMMISSION

Joseph P. Bort MetroCenter
101 Eighth Street
Oakland, CA 94607-4700
Tel: 510.464.7700
TDD/TTY: 510.464.7769
Fax: 510.464.7848

Memorandum

TO: Arterial Operations Committee

DATE: Sept. 6, 2006

FR: Christina Atienza

W.I.: 1234

RE: **Technology Transfer Program**

The Technology Transfer Program offers free half-day seminars on various topics of interest to Bay Area traffic engineers. For FY 05/06 and 06/07, MTC retained Kimley-Horn and Associates to help develop and provide seminars on the following topics that were identified by the Committee: wireless communication for signal systems; advanced signal timing, including transit signal priority and railroad preemption; school safety; accommodating an aging population; and road diets. The seminar on wireless communication for signal systems was held in October 2005.

The Advanced Signal Timing seminar will be held on Monday, October 2, 2006 at the MetroCenter Auditorium from 10:00 a.m.-2:00 p.m. (The MetroCenter is close to Oakland's Chinatown and several other restaurants.) Following is the final outline for the seminar:

Revised Outline for Advanced Signal Timing Seminar

- 1) Introduction
- 2) Advanced Signal Timing Scenarios: Process and Considerations
 - a) Signal priority (transit, light rail) and preemption (emergency vehicles, heavy rail)
 - i) Transit Signal Priority (TSP)
 - (1) Different priority types
 - (a) Passive
 - (b) Active
 - (2) Different TSP detection technologies/approaches
 - (a) Optical
 - (b) Radio
 - (c) GPS/AVL
 - (3) Signal timing settings for TSP
 - (a) Max/min times
 - (b) Transition times
 - ii) LRT Signal Timing
 - iii) Emergency Vehicle Preemption
 - (1) Different detection types
 - (2) Timings in new controllers
 - iv) Railroad Preemption
 - (1) New PUC requirements

- (2) Timing options in new controllers
- b) Signal coordination across jurisdictional boundaries
 - i) Overcoming system incompatibilities
- c) Advanced Signal Timing Features
 - i) Twice-per-cycle left turns
 - ii) Variable lane control
 - iii) Single-point operations
 - iv) Bus queue jumping
 - v) Balancing freeway interchange, expressway and arterial needs
 - vi) Ramp metering operations and arterial needs
- d) Signal timing for pedestrians and bicyclists
 - i) New features and functions within traffic signal controllers
 - ii) Overlaps
 - iii) Advanced walk
 - iv) Interchanges
- e) Case Studies
 - i) Bus Queue Jumping – Javad Mirabdal, San Francisco
 - ii) Railroad Preemption – Need volunteer.
 - iii) Ramp Metering – Need volunteer.



METROPOLITAN
TRANSPORTATION
COMMISSION

Joseph P. Bort MetroCenter
101 Eighth Street
Oakland, CA 94607-4700
Tel: 510.464.7700
TDD/TTY: 510.464.7769
Fax: 510.464.7848

Memorandum

TO: Arterial Operations Committee

DATE: Sept. 6, 2006

FR: Christina Atienza

W.I.: 1234

RE: **Regional Signal Timing Program**

The Call for the Projects for the 2007 Cycle of the Regional Signal Timing Program (RSTP) will be released in October. The budget for the 2007 Cycle is approximately \$1.6 million, which can be used to retune about 700 signals. Attached for the Committee's review is the 2006 Cycle Call for Projects. Unless the Committee has suggestions for improvement, it is MTC's intention to simply update the previous Call for Projects to reflect the new date and budget.



**METROPOLITAN
TRANSPORTATION
COMMISSION**

Joseph P. Bort MetroCenter
101 Eighth Street
Oakland, CA 94607-4700
TEL 510.817.5700
TTY/TDD 510.817.5769
FAX 510.817.5848
E-MAIL info@mtc.ca.gov
WEB www.mtc.ca.gov

October 21, 2005

Jon Rubin, Chair
San Francisco Mayor's Appointee

John McLemore, Vice Chair
Cities of Santa Clara County

Tom Ammiano
City and County of San Francisco

Irma L. Anderson
Cities of Contra Costa County

Tom Azumbrado
U.S. Department of Housing
and Urban Development

James T. Beall Jr.
Santa Clara County

Bob Blanchard
Sonoma County and Cities

Mark DeSaulnier
Contra Costa County

Bill Dodd
Napa County and Cities

Dorene M. Giacomini
U.S. Department of Transportation

Scott Haggerty
Alameda County

Anne W. Halsted
San Francisco Bay Conservation
and Development Commission

Steve Kinsey
Marin County and Cities

Sue Lempert
Cities of San Mateo County

Michael D. Nevin
San Mateo County

Bijan Sartipi
State Business, Transportation
and Housing Agency

James P. Sperling
Solano County and Cities

Pamela Torliatt
Association of Bay Area Governments

Shelia Young
Cities of Alameda County

Steve Heminger
Executive Director

Ann Flemer
Deputy Executive Director, Operations

Andrew Premier
Deputy Executive Director,
Bay Area Toll Authority

Therese W. McMillan
Deputy Executive Director, Policy

**Cities and Counties
San Francisco Bay Area**

RE: Call for Projects – Regional Signal Timing Program, 2006 Cycle

The Metropolitan Transportation Commission (MTC) invites your agency to submit applications for the 2006 Cycle of the Regional Signal Timing Program. Successful applicants will receive assistance from MTC's consultants for development and implementation of new time-of-day traffic signal coordination plans for weekday peak periods. The budget for the 2006 Cycle is \$1.4 million in federal funds, with which about 650 signals may be retimed. MTC will provide the local matching funds. In previous Cycles, all applications that met eligibility requirements were funded.

Eligibility

Public agencies that operate traffic signals in the Bay Area are eligible to apply. Other public agencies, such as congestion management agencies or transit agencies, are also eligible to apply if authorized to act on behalf of the agencies that operate traffic signals within the project limits.

Projects involving four (4) or more traffic signals that have controller clocks that may be automatically synchronized to a common reference (via interconnect, WWV, or GPS), and are currently running in free operation or whose coordination plans have not been updated in the past three years, are eligible. Systems that are not currently capable of automatic clock synchronization, but will be by August 2006, are also eligible.

Technical Assistance – Scope and Schedule

MTC's consultants are available to perform, or assist agencies in the performance of, the following:

	Tasks	Deliverables	Deadlines*
1	Project Start-Up: discuss workscope and schedule with agency & partners	Detailed Workscope, Schedule, and Budget	Mid-March
2	Analysis of Existing Conditions: data collection, model development and calibration, and analysis	Existing Conditions Memo and Computer Model	Late July
3	Recommendations	Recommendations Memo	Late August
4	Implementation, Fine-Tuning, and Evaluation	Timing Sheets, Revised Computer Model, Final Evaluation Memo	Wrap-Up by December

**Schedule may be extended if approved by MTC*

Requirements

Within one month of award, recipients will be required to enter into an agreement with MTC to waive all claims and indemnify MTC against any third-party claims that may result from the agency's participation in the Program. A sample agreement and MTC's indemnification and insurance requirements from our consultants are attached for preliminary review by your agency's attorney. Copies of MTC's contract with the Program consultants are available upon request. *Agencies that have participated in previous Cycles are exempt from this requirement.*

During performance of the project, recipients will be required to review and approve all consultant deliverables, and facilitate project completion by mid-December 2006, unless otherwise approved by MTC.

After completion of the project, recipients will be required to report the benefits of the project to their governing board, based on data in the Final Evaluation Memo.

Benefits of Participation

Good signal timing is one of the quickest and easiest ways to alleviate congestion, eliminate unnecessary delays, improve the safety of all travelers, and reduce customer complaints. The results of the 2004 Cycle of the Program prove that signal timing is a very cost effective measure, providing a benefit:cost ratio of 35:1, including average reductions of 13 percent in travel time and fuel consumption, and 7 percent in mobile source emissions.

The Program is set up to ease the burden on public agency staff in terms of time and expertise requirements by providing consultants to perform as much of the work as possible. In addition to basic signal coordination services, agencies will also receive all new traffic counts, an evaluation of collision history, and an inventory of their existing equipment.

New for the 2006 Cycle: projects involving fifty (50) or more traffic signals are eligible to apply for reimbursement of a portion of staff costs to implement and fine-tune the new timing plans.

How To Apply

Fill out the attached 2-page application form and **submit five (5) copies of the completed application, including all attachments, by 4:00 p.m. on Friday, December 30, 2005.**

Applications submitted after that time will not be considered.

Applications and all inquiries should be submitted to the Program Manager at the address shown below. For telephone inquiries, call 510.817.5828 or e-mail catienza@mtc.ca.gov.

Christina Atienza
Metropolitan Transportation Commission
Joseph P. Bort MetroCenter
101 Eighth Street
Oakland CA 94607-4700

Evaluation Factors

MTC staff will conduct an initial screening of all applications received by the above deadline to determine whether the eligibility requirements have been met. If the total number of signals to be retimed exceeds 650, applications that meet eligibility requirements will be reviewed by a panel consisting of staff from MTC and other public agencies based on potential to: enhance safety, mobility, and system efficiency; improve air quality; and increase person throughput and transit use. Successful applicants will be notified by Friday, January 20, 2006.

For detailed information regarding the goals and objectives of the Program, application evaluation criteria, and the consultants' scope of work, please refer to the Program Guidelines at www.bayareatrafficsignals.org/events.htm.

We appreciate your interest in this solicitation and look forward to receiving your applications.

Sincerely,

Steve Heminger
Executive Director

SH: CA

S:\Project\Arterials\RSTP\2006 Cycle\Call for Projects.doc

Attachments

APPLICATION FORM FOR REGIONAL SIGNAL TIMING PROGRAM 2006 CYCLE

General Instructions

This application may also be downloaded from www.bayareatrafficsignals.org/events.htm. **Applications must be received by 4:00 p.m. on Friday, December 30, 2005. Submit five (5) copies** of the completed application, including attachments, to:

Christina Atienza
Metropolitan Transportation Commission
Joseph P. Bort MetroCenter
101 Eighth Street
Oakland CA 94607-4700

1) GENERAL INFORMATION

a) Project Title

Provide a descriptive and distinctive name for the project

b) Project Sponsor and Contact Information:

Name, Title

Organization

Mailing Address Line 1

Mailing Address Line 2

Telephone Number, Fax Number, E-Mail

c) Other Participating Agencies and Their Roles:

List cities, towns, county, transit agency, school district, Caltrans, etc. and the role of each agency with respect to the project. List agencies that own and/or operate traffic signals within the project limits first.

d) Work Type(s): Check all that apply.

☐ Weekday Peak Period Time-of-Day Traffic Signal Coordination:

☐ Weekday AM ☐ Weekday Midday ☐ Weekday PM

Notes: (1) Checking all three scenarios will not adversely affect the applicant's chances of receiving funding. (2) Check the weekday midday box if unsure about whether signal coordination would be warranted, but would like the consultant to conduct the analysis.

☐ Weekday Transit Signal Priority

e) Project Type: Check one.

☐ One Arterial in One Jurisdiction

☐ Area-Wide in One Jurisdiction

☐ One Arterial in Many Jurisdictions

☐ City-Wide in One Jurisdiction

☐ Multiple Arterials in One Jurisdiction

☐ City-Wide in Adjacent Jurisdictions

☐ Multiple Arterials in Many Jurisdictions

2) PROJECT INFORMATION

a) Project Description:

Description: Provide a list of all intersections to be retimed and a map of the project, including project limits, jurisdiction boundaries, location of signals, signal systems, subsystem boundaries, controller types, and existing coordination capabilities (interconnect, WWV, GPS, etc.).

APPLICATION FORM FOR REGIONAL SIGNAL TIMING PROGRAM 2006 CYCLE

b) Available Data: *Check all that apply.*

- | | |
|---|---|
| <input type="checkbox"/> Timing Sheets | <input type="checkbox"/> Signal Timing Preferences |
| <input type="checkbox"/> Coordination Plans | <input type="checkbox"/> Transit Priority Preferences |
| <input type="checkbox"/> Traffic Signal As-Builts | <input type="checkbox"/> Computer Model |
| <input type="checkbox"/> Aerial Photos | <input type="checkbox"/> Three Years Collision Data |

Additional Information: Describe exceptions and provide clarifications as necessary.

c) Are all the traffic signals that will be retimed as part of the project currently equipped with clocks that may be automatically synchronized to a common time reference (via interconnect, WWV, or GPS)?

☐ Yes ☐ No

Additional Information: If no, provide explanation.

d) Are all traffic signals that will be retimed as part of the project currently running in free operation, or if coordinated, has it been at least three (3) years since the last time the coordination plans were updated?

☐ Yes ☐ No

Additional Information: If no, provide explanation.

e) Describe any and all known factors outside of the RSTP consultant's control that may require a schedule extension beyond project completion by mid-December 2006.

Indicate if none. For traffic signal-related construction, provide list of affected locations, estimated time for procurement, and construction completion. For roadway construction, describe affected locations and estimated time for construction completion.

f) Additional Services

Describe project elements that may require additional services from the consultant beyond those that are conducted for typical signal coordination projects, including but not limited to: transit signal priority, cut-through traffic, multiple traffic signal systems, cross-coordination, special or unique signal phasing, high-volume unsignalized intersections, etc.

DEMONSTRATION OF SUPPORT AND APPLICATION SIGNATURES

Attach letters of support from all participating agencies other than Caltrans, or have an official from the other participating agencies sign this application along with the project sponsor. By providing letters of support and/or signing the application, the signator affirms that the statements contained in the application are true and complete to the best of their knowledge.

_____ Signature	_____ Signature	_____ Signature
_____ Name/Agency	_____ Name/Agency	_____ Name/Agency

ATTACHMENT – SAMPLE AGREEMENT BETWEEN PARTICIPATING AGENCIES AND MTC

WAIVER OF CLAIMS AND INDEMNIFICATION AGREEMENT

Between METROPOLITAN TRANSPORTATION COMMISSION And AGENCY NAME

THIS AGREEMENT is made and entered into as of the insert day day of insert month, 2004, by and between the Metropolitan Transportation Commission, a regional transportation planning agency established pursuant to California Government Code § 66500 et seq., (herein called “MTC”), and agency name (herein called “CITY”/“COUNTY”/“TOWN”).

WITNESSETH

WHEREAS, MTC has entered into a technical services agreement with several consulting firms (herein called “the Consultants”), under which the firms will provide assistance to various Bay Area cities in the retiming of traffic signals in those cities (herein called “the Project”); and

WHEREAS, CITY/COUNTY/TOWN is participating in the Project by receiving assistance from one of the Consultants (herein called “the Consultant”);

WHEREAS, the parties wish to define CITY’S/COUNTY’S/TOWN’S obligations to MTC respecting waiver of claims and indemnity;

NOW, THEREFORE, the parties hereto agree as follows:

1.0 WAIVER OF CLAIMS AGAINST MTC

CITY/COUNTY/TOWN waives all claims by CITY/COUNTY/TOWN, its directors, supervisors, officers, employees, or agents against MTC, its commissioners, officers, and/or employees for damages, loss, injury and/or liability, direct or indirect, resulting from CITY’S/COUNTY’S/TOWN’S participation in the Project and/or the services provided to CITY/COUNTY/TOWN by the Consultant under contract to MTC. CITY’S/COUNTY’S/TOWN’S waiver shall not apply to liability arising from and caused by the adjudicated or admitted negligence or willful misconduct of MTC, its commissioners, officers, and/or employees.

2.0 INDEMNIFICATION AND DEFENSE

CITY/COUNTY/TOWN agrees to indemnify, hold harmless and defend MTC, its commissioners, officers, and employees from any and all third party claims, demands, lawsuits, liability, loss, damages, injury and/or liability, direct or indirect (including any and all costs and expenses in connection therewith), resulting from or in connection with provision of services to CITY/COUNTY/TOWN by the Consultant under contract with MTC, to the extent such claims, demands, etc. are not covered by the Consultant’s indemnification of MTC in the Consultant’s contract with MTC. CITY’S/COUNTY’S/TOWN’S indemnification obligation shall not apply to liability arising from and caused by the adjudicated or admitted negligence or willful misconduct of MTC, its commissioners, officers, agents, and employees.

IN WITNESS WHEREOF, this agreement has been executed by the parties hereto as of the date first written above.

METROPOLITAN TRANSPORTATION
COMMISSION

AGENCY NAME

Steve Heminger, Executive Director

Name of Authorized Signator, Title

METROPOLITAN TRANSPORTATION COMMISSION

INDEMNIFICATION

Consultants are required to indemnify and hold harmless MTC and all client jurisdictions from any and all claims, demands, suits, loss, damages, injury, and/or liability, direct or indirect (including any and all costs and expenses in connection therewith), incurred by reason of any negligent or otherwise wrongful act or omissions of the consultants; and, at their own cost, expense, and risk, to defend any and all claims, actions, suits, or other legal proceedings brought or instituted against MTC and all client jurisdictions, arising out of such negligent or otherwise wrongful act or omission, and to pay and satisfy any resulting judgments.

The indemnification obligation shall not apply to liability arising from and caused by the adjudicated or admitted negligence or willful misconduct of MTC or any client jurisdictions. If the adjudicated or admitted negligence or willful misconduct of MTC or any of the client jurisdictions contributes to a loss, the consultant shall not be obligated to indemnify such indemnitee for the proportionate share of such loss caused by such negligence or willful misconduct.

INSURANCE

Consultant must obtain and maintain at their own expense the following types of insurance for the duration of the agreement: (1) Worker's Compensation Insurance, as required by the law, and Employer's Liability Insurance in an amount no less than \$1,000,000; (2) Commercial General Liability Insurance with a combined single limit of not less than \$1,000,000 for injury to any one person and for any one occurrence and \$2,000,000 general aggregate applying separately to this project; (3) Automobile Liability Insurance in an amount no less than \$1,000,000; and (4) Errors and Omissions Insurance in the amount of \$1,000,000. The Commercial General Liability Insurance policy shall contain an endorsement to include MTC, its Commissioners, officers, representatives, agents and employees and all client jurisdictions as additional insureds and to specify that such insurance is primary and that no MTC or client jurisdiction insurance will be called on to contribute to a loss. Certificates of insurance verifying the coverages and the required endorsements and signed by an authorized representative of the insurer must be delivered to MTC prior to issuance of any payment under the Agreement by MTC.



METROPOLITAN
TRANSPORTATION
COMMISSION

Joseph P. Bort MetroCenter
101 Eighth Street
Oakland, CA 94607-4700
Tel: 510.464.7700
TDD/TTY: 510.464.7769
Fax: 510.464.7848

Memorandum

TO: Arterial Operations Committee

DATE: Sept. 6, 2006

FR: Christina Atienza

W. I.: 1234

RE: **Other Business**

Update on Infrastructure Bond

Both Propositions 1A and 1B on the November ballot will increase the amount of funds dedicated to transportation improvements. MTC is support of both propositions. For more information on how much the region could gain from the passage of these two propositions, please see: www.mtc.ca.gov/legislation/november_ballot.htm. At the meeting, staff will also provide an update on the status of preparations for Prop. 1B.

Update on CalPED's Proposed Modifications to CHP 555

At the last meeting, staff presented proposed modifications that have been identified by a CalPED task force. The task force is scheduled to meet again on Sept. 11, at which time it may decided to either proceed with the modifications as is or to fold them into the Strategic Highway Safety Plan. At the meeting, staff will brief the Committee on the status of this effort.

Update on Strategic Highway Safety Plan

The Business, Transportation and Housing Agency's approval of the final draft of the Strategic Highway Safety Plan, expected last August, has been delayed. Per SAFETEA requirements, the Plan needs to be approved by October 1.

Freeway Traffic Data Sources

Did you know that you could get historical and current traffic counts, bottleneck locations, level of service, and much more data on a number of major Bay Area freeways from PeMS? Did you know that you could get historical and current incident information and much more data on a number of major Bay Area freeways from traffic.com? While both web sites offer some information for general public consumption, a lot of the robust data that can be used for detailed analyses is available only if you obtain a user account (historical incident information on traffic.com is restricted to government users only). Getting an account is easy. Check it out!



METROPOLITAN
TRANSPORTATION
COMMISSION

Joseph P. Bort MetroCenter
101 Eighth Street
Oakland, CA 94607-4700
Tel: 510.464.7700
TDD/TTY: 510.464.7769
Fax: 510.464.7848

Memorandum

TO: Arterial Operations Committee

DATE: Sept. 6, 2006

FR: Christina Atienza

W. I.: 1234

RE: **Budgeting for Operations**

Lily Lim-Tsao of San Jose and Steve Fitzsimons of Republic Electric will be at the meeting to lead a focused discussion on the subject. All are welcome and encouraged to participate. The following, developed by Lily and Steve, are considerations for the budgeting process and are offered as starting points for the discussion:

- Number of traffic signals : Number of FTE staff working on traffic signal operations
- System type (name AND level of support or complexity of system)
- Number of intersections with rail preempt or bus priority
- Staff mix (engineer/technician)
- Special functions in traffic management center (school or council tours, etc)
- Work process flow chart (does the person who gets the complaint call go fix the problem or write up a work order for someone else to fix it?)

[Home](#)[About MTC](#)[News](#)[Jobs & Contracts](#)[Meetings & Events](#)[Get Involved](#)[Services](#)[Library](#)[Maps & Data](#)[Funding](#)[Planning](#)[Legislation](#)[Links](#)

Arterial Operations

- [Current Initiatives](#)
- [Events and Deadlines](#)
- [Downloads](#)
- [Links](#)

Arterial Operations Program

Through the Arterial Operations Program, MTC provides assistance to local agencies in their efforts to improve traffic operations on arterial streets by sponsoring projects that deal with signal timing and other arterial operations issues; developing and implementing initiatives to promote improved arterial operations; and supporting the Arterial Operations Committee as a forum for discussion of shared issues and innovative and/or practical solutions to those issues. The program provides direct benefits through projects that reduce travel time and emissions and enhance traffic safety on arterial streets; as well as indirect benefits through projects that help local traffic engineers do their job more efficiently and effectively.



For more information about MTC's Arterial Operations Program, contact lead staff support, Christina Atienza
Tel. 510/817-5828
e-mail: catienza@mtc.ca.gov

See also: [Pedestrian and Bicyclist Safety Toolbox](#)

[Contacts](#) • [Accessibility Information](#) • [Site Help](#)

info@mtc.ca.gov • [Report Web site comments](#)

[Información en Español](#)

Metropolitan Transportation Commission • 101 Eighth Street, Oakland, California 94607
Phone: 510.817.5700, Fax: 510.817.5848

This page was last modified Tuesday February 14, 2006

© 2006 MTC